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BRITISH NEED

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VOID TROUBLE CLOSED CAR TO BY AUTO CARE LEAD IN SHOWS

New Year With

Confidence

BY WRITCOMB WILLIAMS.

the buyer of a motor car was chiefly

concerned with the power and how

it would perform and endure. He now

DETROIT, Dec. 30.—In past years

oper Methods of Handl- Automobile Industry Enters Are Told

many motorists store their the winter?" queries one Oguto dealer. "Surely there aren't many, but for the benefit of those de, it may be well to say that now time for them to pay particular then to the machinery if they takes the ability of both motor and to avoid endless trouble in the chassis for

chassis for granted and thinks more is the consensus of opinion and automotive men that at least per cent of trouble with the menical equipment of an automobile be directly traced to the lack of decition or the use of lubricants irely unsuited for the purpose of definite part requiring lubrication. It is a messy, dirty, disagreeable to crawl undermeath an automotion of the grease cups and turn of down. However, a little aftenia in this respect has proved itself deciding factor in the economical intenance of a car.

Owing to the hardships of the winseason it is imperative that the begiven special care as to the lutation of chasals bearings in partial.

Before laying up a car for the ter all the bright work should be the public in the special care as to the lutation of chasals bearings in partial the bright work should be trailed the various shows who will attend the various shows who will attend the various shows who will attend the various shows at the time of body types. It is conceded that the coming distinguishment of body types.

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It is conceded that the about the car's general appearance. is the consensus of opinion

sefore laying up a car for the sity, and are needed at all times of the year.

The automobile industry will enter the should be filled with a high grade dence and optimism. For this intuspicant covers the part requiring practically ended.

Can proceed to ruxnry, but as a necessity, and are needed at all times of the year.

The automobile industry will enter the 1923 season with extreme confidence and optimism. For this intuspicant covers the part requiring practically ended.

Can proceed to ruxnry, but as a necessity of the year.

The automobile industry will enter the strength of the year.

Florida Citizens Protest Because of Heavy Court Costs

DDITICUM racid grease and turned down until lubricant covers the part requiring feation. These grease cups should removed and filled once more. The water should be drained from midiator and water jackets, the oil all be drained from the crankcase i crankcase refilled with a high is lubricant; such assemblies as universal joint, transmission, the sand differential should be cartically and wire terminals on the storage batteries should be resident and both the terminals of the serior and wire terminals coated with set prevent corrosion. The gasotank should be drained, the cartid be jacked up on horses to resist he weight from the tires. The should not be defiated; the cartid be covered if possible and and in a warm, dry place.

The plenty of grease in running or the public is in a frame of mind to accept the modern car as the highest expression of design that may be expected for some time to come. The same need for all types of motor vehicles which created a record output of approximately 2,400,000 vehicles in 1922, or 10 per cent better than the previous high mark of 1820, will be as keenly felt in 1923. Farming conditions are expected to be greatly improved, which will mean the purchase of a greater number of autombiles and trucks. One of the difficulties that is almost fure to develop.

Leo Peck

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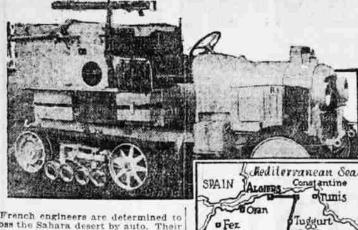
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OGDEN, UTAH

Across Sahara by Auto



cross the Sahara desert by auto. Their second attempt will be made in January in the truck shown above. Note its queer caterpillar traction and guns for defense. Map shows the 3600-mile route to be taken.

FEE GRABBERS **GIVEN SETBACK**

Fee-grabbing officials who prey upon the motor tourists for petty vio-lations of the law were denounced in no uncertain terms at a mass meeting f Florida citizens held at Clearwater, Efforts Being Made to of Florida, in response to a call issued by the Clearwater Motor club, affiliated with the A. A. A. Citizens from Jacksonville, Tampa and St. Petersburg were present at the meeting.

Citizens of Clearwater charged that arrests of motorists for petty offences had been so flagrant and the so-called costs in the case so high that tourists were deliberately routing their telesson as to avoid passing through the so-called costs in the case so high that tourists were deliberately routing their so as to avoid passing through the so-called costs in the case so high that tourists were deliberately routing their so as to avoid passing through the so-called costs in the case so high that tourists were deliberately routing their so-called costs in the case so high that tourists were deliberately routing their so-called costs in the case so high that tourists were deliberately routing their so-called costs in the case so high that tourists were deliberately routing their so-called costs in the case so high that tourists were deliberately routing their so-called costs in the case so high that tourists were deliberately routing their so-called costs in the case so high that tourists were deliberately routing their so-called costs in the case so high that tourists were deliberately routing their so-called costs in the case so high that tourists were deliberately routing their so-called costs in the case so high that tourists were deliberately routing their so-called costs in the case so high that tourists were deliberately routing their so-called costs in the case so high that tourists were deliberately routing their so-called costs in the case so high that tourists and the so-called costs in the case so high that tourists and the so-called costs in the case so high that tourists were deliberately routing their so-called costs in the case so high that tourists and the so-called costs in the case so high that tourists and the so-called costs in the case so high that tourists and the so-called costs in the case so high that tour

sepression of design that may be expected for some time to come.

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The same need for all types of motorials for petty offences at the case so high that tourners the weight from the time the petty of grease in running or the plenty of grease in running or the plenty

What are the problems facing the priced cars selling f. o. b. factory up to \$1000, would undertake to educate what are the problems acting the automobile engineer?

This question sounds superfluous with the highly developed cars seen on the streets. But, take it from C. C. Hanch, vice president of the National Automobile Chamber of Commerce, there are still some radical developments to be considered in automobile research and design, before the motor vehicle can be declared perfect. These he enuemrates as follows:

Development of strong, light metals; also steels and allows with high tensile strength.

Designing of carburetors which will leaves more than ever convinced that

Designing of carburetors which will educe fuel consumption and also sucessfully utilize low grade fuels. Improvement of braking and spring

Building of more easily manipulated ranamission.
Advance in headlighting system which will minimize glare.
Simplification of construction in

general.
Developments of equivalents or substitutes for existing materials.

Cars of seven nations will be ex-sibited at the New York motor salon-netween December 3 and 9.

PREPARE FOR MOTOR SHOWS

and New York Are

As a result of intensive activity during the past few weeks, preparations for the twenty-third national automobile shows are making great head-way. Reports from the factory dis-tricts, early this month, are to the effect that work on the 1923 models to be displayed at the exhibition are completed and that all arrangements have been made to ship the cars to New York Complete co-operation among manufacturers, dealers and the show management has been a big fuc-tor in arranging the preliminaries for the big exhibition of motor cars. With cichty-one different makes of automobiles and more than 300 acces-sory manufacturers listed as exhib-itors, the National Automobile shows of New York and Chicago will be the biggest automobile exhibitions ever presented in this country. The New York show will be held

The New York show will be indu-January 6 to 13, and the Chicago ex-position in the Collseum and First Regiment armory, will be held Janu-ary 27 to February 3. Both displays are under the direction of the Na-tional Automobile Chamber of Com-merce. The Grand central palace work again house the New York show in the

ow this year is the wonderful array accessories. The total number of vices, big and liftle, that go to help e motorist to not only run his car. also in many instances to add to its appearance, breaks all records. Un-doubtedly there will be many new things on view, but, like car builders, the accessory manufacturers keep

will occupy the two lower floors, but it has been found necessary because of the great demand for space to put Several of the cars on the third floor. Bigger, brighter, more interesting than ever, is the promise that is held out for the 1923 show. It's the same out for the 1923 show. It's the same promise that was made for the show of a decade ago, and every other annual display before and since. And, strangely enough, the yearly display invariably has lived up to the optimistic predictions of its aponsors. Since the far gone days in the early part of the course have a superstant of the course have a supe part of the contury no National Auto-mobile show has ever falled to provide a wealth of entertainment not only a wealth of entertainment not out fro the man who drove a car, but the department of the man who hoped to the man who hoped to the man who hoped to the fight now a full house is assured. It Chevrolet, Cleveland, Climber, Cole, the salways been so; it probably always to the colet, Cleveland, Climber, Colet, Courier, Craw-

has gone into a leading place in the countrys commercial standing.

Whether or not the coming exposition will disclose anything revolutionary or radical will remain a secret until the doors of the palace are thrown open on January 8. In every factory throughout the country for class of official who works on the socalled fee basis and to replace him
with an official who will give some
attention to the more serious crimes
ame prices. It is difficult to see
where the money invested than can be found
in local products selling at about the
same prices. It is difficult to see
where the money has gone in the maknoffensive motorist whose tall light
happens to have gone out.

American Automobile calve for the money has gone in the makficials feel that Florida is to be congratulated for taking this forward
step.

PROBLEMS FACING

THE AUTO ENGINEER

Far more of real automobile value for
the money invested than can be found
to local products selling at about the
same prices. It is difficult to see
where the money has gone in the makfing of most cars of the cheapest class
—that is, ranging from the lowers at
160 pounds up to 275 pounds—for it
must be remembered that these prices at current rates of exchange represent the equivalent of \$660 to \$1,250.

Size, style, finish, equipment, are not
to be compared with the American
cars, which, after paying 32 1-2 per
cent duty on the c. I. price still sell
in the same price range. This is
equally true of the group selling for
surface products selling at about the
month past the brains of the automotive Industry have been engaged in the
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signers have evolved that the coming disments that will mark the cars to be
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sign actory throughout the

sine, the sedan, the coupe and the various combinations of these three standard types put out with more or ess whimsteal names.

Protection from the weather, when protection is needed, explains the protection is needed, explains the great and growing popularity of the losed car, taken in conjunction with improved body design, which in balmy weather permits of all the advantages an open model.

Each year has brought greater lux-y of interior fittings and uphoistery such a pronounced degree that eve he lowest priced cars have needed to make no apology for their lack of rid-ng comfort. It is safe to assume that the models in the Palace show will demonstrate superiority over all previous efforts in this line.

The accessory makers confine their new products to no particular time of the year, but most important ones are usually reserved for the National show, Many bundreds of accessory. leaves more than ever convinced that the low priced motor business in this market ought to belong to standard American makes."

show. Many hundreds of accessory exhibitors are aiready listed, and the motorist will find a journey among the displays quite as fascinating and informative as in previous years. And he is certain to find some surprises. The automotive industry faces the coming year with extreme optimism and confidence. For this industry, at least the period of reconstruction has practically ended. Despite their uni-versal utility, motor cars were the first to react to the conditions caused e high cost of mater during the war period.

Car prices have been stabilied, even hough slowly; the industry is just losing a year that has been amazing a the volume of production and sales, and there is every indication that the oling year will start and end in and of glory. Not only are general additions indicative of continue productions indicative of continued acrosperity, but there is every evidence that the public is in a frame of mind to accept the modern car as the highest expression of design that may be expected for some time to come.

The motorist who in past years has disting the New York and Chicago those prepared to view the most called in proportions will be estimated to

sidical innovations will be satisfied in anuary if the new cars show dis-inctive refinements. That this will be the case there is no doubt, but no no looks for any drastic novelties in nstruction.

The expectation is general that body designs and fittings will prove to the the most engrossing feature of the coming exposition. Greater compactness to make motoring easier and eafer in these days of crowded streets. and even country roads, is promised. Also, because of increasingly dense traffic, the method of putting brakes on all four wheels makes a strong apeal, and several cars thus equipped tre likely to be displayed. Most of the manufacturers however, are closs-y guarding their secrets in order that hey may disclose them when the now starts.

"The demand for individual motor ransportation continues at a record sace," said Aifred Reeves, general manager of the National Automobile hamber of Commerce, on his return rom a visit to a number of motor car nd motor truck plants in Ohlo in-

EUROPE MAKES BETTER CARS

Annual Events in Chicago Advancement in Coach Work Noticeable Feature of England

> tion, has returned to the offices of the company after a trip of two months to England, Belgium and from European motor car builders Switzerland, during which time he attended the London automobile show and wisited leading motor car manufacturing plants of England and the continent.
>
> Saugedde reports extensive recent commutator or thus lubrication Cylical Cylical

continent.

Sauzedde reports extensive recent activity among manufacturers of France, Belgium and Italy in developing chasses to a point of higher efficiency and a tendency on the part of English builders to give greater emphasis to fine coach work. In chassis design England offers nothing particularly new, he asserts, while leading continental makers. onlinental makers have adhered to conservative policy of mechanical advancement not dissimilar to the course pursued by those American makers who have wished to keep their products thoroughly modern without resorting to freaklah experiments that might prove costly to the car owner.

and November supplied bigger shipments than ever were recorded for the same period of any previous year. "The same need for motor vehicles

The same need for motor vehicles which created a record output of 2,400,000 units in 1922 or 10 per cent letter than the previous high mark of 1920, will be as keenly feit in 1922. Further, in 1922 more persons will be able to purchase the needed transportation because farming conditions will be letter, exports are already showing be better, exports are aiready showing

the accessory manufacturers. Keep their plans under cover until the show opens.

For the show the four floors of the palace that will be occupied contain 25 to 30 per cent today. "In fact, the difficulty of getting croup is equal to a city square block floor is equal to a city square block on the imiting factors in 1923. It is true that there are tors in 1923. It is true that there are many in, the market who prefer the open type of vehicle, but the trend of favor is toward the inclosed models.

"The continued growth and record output of the industry in 1922 which has astounded some may be accounted for the the fact that motor transports tion meets a fundamental human need for individual means of travel, and by the fact that manufacturers read justed prices promptly and directly to the ultimate consumer, so that motor vehicle values today are the best that have ever been offered. The following makes of cars will he exhibited at the shows:

will be. The annual review is an assured success because its appeal is as wide as the country itself.

The visitors to the show of 1923 may go with the consciousness that he isfor the first time—paying homage to the world's greatest industry. The production of motor cars and their accessories has gradually crept up from the modest figures of early years until at the present time the industry in as gone into a leading place in the

European roads, which have long been regarded as far superior to our own, can no longer lay claim to this distinction, according to Sauzedde. He states that the heavy truck traffic during the war has caused disintegra-tion of many of the highways, and most of the European countries have been unable to keep roads in repair.

During the same period, American roads have been vastly improved and are given constant maintenance care. That improved roads here might mean changed design in certain features of motor car construction, is one possibility expressed by Sauzedde. Ho believes that only a few American manufacturers have shown in the design of their cars that full cognizance has been taken of the improved high-way conditions which we now enjoy.

WEEK BY WEEK WITH,



THE NEW YEAR No doubt will be a better year

than the old one was. With regard to tire mileage, you can make it a better year with MILES MORE service. Make a resolution to get more mileage With MILES MORE on the job, it will not be hard to keep.

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More Per Year



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00 to 500 pounds.

UPSETS OLD MARK

(By International News Service,) LEYTONSTONE, England, Dec. 3 An ancient stone placed here by the

Romans and a landmark for centuries

has fallen before progress. A wild motor car driver upset the stone which the centuries had falled to dis-

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